Development of renewable sources of energy

156. SHRI S, MADHAVAN: Will the Minister of ENERGY be pleased to state the steps that are being taken by Government to develop renewable sources of energy and to promote large scale utilisation of solar assisted water heating systems in order to reduce the demand for energy from conventional sources?

THE MINISTER OF STATE IN THE MINISTRY OF ENERGY (SHRI BABANRAO DHAKNE): Government has taken up research and development, demonstration, extension and national programmes for the development and utilisation of renewable energy devices in order to reduce the demand for energy from conventional sources. 13.06 lakhs bigas plants, 92.85 lakhs improved chulhas, 152052 M2 collector area under various solar thermal devices including solar assisted water heating systems, 157700 solar cookers, various photovoltaic systems with over 3.5 MW capacity and wind electric generating systems of 34 MW capacity have already been set up in the country till 31st December, 1990 under the above programmes. Incentives like capital cost sharing, 100 per cent depreciation, soft loan facilities, exemption of central excise and sales tax etc. are being made available to the users/ manufacturers far the installation of solar assisted water heating systems to promote their large scale utiiza-tioa.

Review Committee on National Policy on Education

157. SHRI S. MADHAVAN: Will the Minister of HUMAN RESOURCE DEVELOPMENT be pleased to state:

(a) whether the Review Committee on National Policy on Education has reached a broad consensus on the modifications of the Policy of 1986 and if so, what are the details thereof; and

(b) whether Government propose to take steps to formulate schemes to have dynamic inter-action amongst the regional languages to promote mobility and also inter-action *amongst* the people as suggested by the Re-view Committee?

THE MINISTER OF HUMAN RE-SOURCE DEVELOPMENT (SHRI RAJMANGAL PANDEY): (a) The Committee for Review of National Policy on Education, 1986 submitted its report to the Government on December 26, 1990. Copies of the Report were laid on the Table of the Rajya Sabha on January 9, 1991.

(b) Government have not taken a view on the recommendations made by the Committee, which are being examined.

Conversion of coal into various petroleum products

158. SHRI S, MADHAVAN: Will the Minister of PETROLEUM AND CHEMICALS be pleased to state:

(a) whether Government propose to utilise coal available in North Eastern region for conversion into various petroleum products, using special refining technology;

(b) whether any foreign oil expert has discussed with his mounterpart in India about the possibilities of transfer of technology for coal liquiefaction into petroleum products and if so, what are the details thereof; and

(c) what are the details of reserves of coal and oil shale in the **North** Eastern region as per Government estimate?

THE MINISTER OF PETROLEUM AND CHEMICALS AND PARLIAMENTARY AFFAIRS (SHRI SATYA PRAKASH MALAVIYA): (a) No such project is presently under the consideration of the Government.

(b) No Sir.

(c) A rough estimate indicates a reserve of 14 billion tonnes of oil shale alongwith associated coal in the North-east region. However, detailed geological and geochemical investigations would be necessary to establish the reserves to a degree of certainty.

Joint collaboration in the field of technology development

159. SHRI S. MADHAVAN: Will the Minister of of PETROLEUM AND CHEMICALS be pleased to state:

(a) whether there is any proposal under Government's consideration to encourage the participation of foreign companies in the technology development programmes in the field of petro-chemicals and refining;

(b) if so, what are the details there • of; and

(c) what are the foreign companies which have come forward for such joint operations?

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THE MINISTER OF PETROLEUM AND CHEMICALS AND PARLIAMENTARY AFFAIRS (SHRI SATYA PRAKASH MALAVIYA): (a) to (c) Discussions with a few foreign companies are in preliminary stage, for participation in the development of basic engineering, technology programme etc. in the petro-chemicals field.

There is a proposal for obtaining technical assistance from multinational oil companies on a centralised basis for all the oil refineries in the country, on payment of a retainer fee, and specified man-hour rates as may be necessary. This will enable refineries to keep abreast of the procedures and techniques being followed else wherein the world in the field of energy conservation, safety, optimisation for improving the yield pattern, and also in developing new projects for optimum utilisation **of** facilities,

Survey for granting petroleum dealerships ana LPG agencies in Andhra Pradesh

160. DR. YELAMANCHILI SIVAJI: Will the Minister of PETROLEUM AND CHEMICALS be pleased to state:

(a) whether any survey has been made in the recent past for the grant of petroleum dealership and L.P.G. Agencies in Andhra Pradesh; and

(b) if so, what are the details thereof?

THE MINISTER OF PETROLEUM AND CHEMICALS' AND PARLIAMENTARY AFFAIRS (SHRI SATYA PRAKASH MALAVIYA): (a) and (b) The information is being collected and will be laid on the Table of the House.

Changes in flight schedules of IA and Vayudoot

161. DR. YELAMANCHTLI SIVAJI: Will the Minister of CIVIL AVIATION be pleased to state the details of changes in flight schedules of Indian Airlines and Vayudoot during the last three years, yearwise and the justification therefor?

THE MINISTER OF STATE OF THE MINISTRY OF CIVIL AVIA TION (SHRI HARMOHAN DHAWAN): The number of times, flight schedules of Indian Airlines and Vayudoot have been changed during the last three years, is as under:—

Year	No. of times schedules were changed	
	Indian Airlines	Vayudoot
1988-89	34	4
1989-90 .	61	19
1990-91 .	54	5